No.



9200056

ADISHALIYAKAD SAHYALIS (DEANYIERUCA)

TO ALL TO WHOM THESE PRESENTS SHALL COME:

FFR Cooperative

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT PETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT AT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'FFR 299'

In Testimony Winercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 31st day of August in the year of our Lord one thousand nine hundred and ninety-four.

Allest

Kerneth HEvans

Commissioner

Plant Variety Protection Office Agricultural Marketing Service Clike ESS Secretary of Agriculture

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

U.S. DEPARTMENT OF A AGRICULTURAL MARKET APPLICATION FOR PLANT VARIET	dete cert Into	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
(Instructions on 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)	reverse)	······································	2. TEMPORARY DESIGNA		VARIETY NAME
1. NAME OF APPOCANT(S) (as it is to appear on the Centificate)	·	EXPERIMENTAL NO.	CHOW ON 3.	ACIE COME	
FFR Cooperative		i	16101		FFR 299
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		5. PHONE (Include area	<u> </u>	FOR OFFICIAL USE ONLY	
4112 East State Road 225				PVP	ONUMBER
West Lafayette, IN 47906			317/567-2115		9200056
				F	Date
				!	Dec. 24, 1991
6. GENUS AND SPECIES NAME	1	NAME (Botanical)			Time Class Con-
Glycine max	Legun	ninosa	e	G F	Siling and Examination Fee
8. CROP KIND NAME (Common Name)		9. DATE OF DETERMINATION			s 2150.
Soybean		2/84			Dale
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGA	NIZATION (Corp	oration, part	nership, association, etc.)	R	
Corporation				C	Certificate Fee:
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DA	TE OF INCORPORATION	ı V	1. 2000
Wisconsin			1960	E D	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO	SERVE IN THIS	APPLICATION	ON AND RECEIVE ALL PAPE	RS	
Stephen L. Robinson					
4112 East State Road 225	•				
West Lafayette, IN 47906			PHONE (Inc.)	ude area code):	
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (FO	llow INSTRUCTION	ONS on teres			
a. X Exhibit A, Origin and Breeding History of the Variety.					
b. X Exhibit B, Novelly Statement. c. X Exhibit C, Objective Description of Variety.					
c. X Exhibit C, Objective Description of Variety. d. X Exhibit D, Additional Description of Variety.					
e. X Exhibit E. Statement of the Basis of Applicant's Owners	hip.			1	
Seed Sample (2,500 viable untreated seeds). Date See	d Sample maile	ed to Plant	Variety Protection Office	12-18-4	<u>1</u>
g. Xi Filing and Examination Fee (\$2,150) made payable to				22.05500.05	-ti P2(s) of the Plant Variaby
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE S Protection Act.) YES (II "YES." answer Hems 16 and 17 II			Y AS A CLASS OF CERTIFI (O," skip to ilem 18 below)	:O 2550; (266 26)	and askay of the Claim various
16 DOES THE APPLICANT/S) SPECIFY THAT THIS VARIETY BE LIMITED AS	·			S OF PRODUCTIO	N BEYOND BREEDER SEED?
NUMBER OF GENERATIONS? YES A NO	į	П _{БО}	JNDATION	REGISTERE	CERTIFIED
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE V	ARIETY IN THE	U.S.?			
YES (If "YES," Ihrough Plant Variety Protection Act	Patent A	Act Give da	1e }		•
X no			•		
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR	MARKETED IN T	THE U.S. OR	OTHER COUNTRIES?		
X YES (II "YES," give names of countries and dates)		•			
□ NO U.S	.A. Mai	rch 19	91		
20. The applicant(s) declare(s) that a viable sample of basic request in accordance with such regulations as may be ap	seeds of this v	ariety wil	l be furnished with th	e application a	nd will be replenished upon
The undersigned applicant(s) is (are) the owner(s) of th uniform, and stable as required in section 41, and is entit	is sexually re led to protecti	ion under I	he provisions of sectio	n 42 of the Plar	that the variety is distinct, at Variety Protection Act.
Applicantistis (are) informed that false representation he	rein can jeop	ardize pro	Lection and result in pe	enalties.	
SIGNATURE OF APPLICANT (Owner(S))	C.	APACITY OR	. 9	•	DATE
Atlant holiens	21-2	20.1	bean Dr.	180 FW	12-13-91
SIGNATURE OF APPLICANT (Owner(s))	c	APACITY OR			DATE

14A. EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY

'FFR 299' originated from a cross of 'Pride B152' and 'Pella'. The initial cross was made at Battle Ground, IN in 1982 and the F_1 generation was grown in a greenhouse at Lake City, SC in the winter of 1983. The early generations of 'FFR 299' were developed using a modified single seed descent selection method. The F_2 generation was grown at Brookston, IN in 1983 and the F_3 generation was grown the following winter in Chile. Single plant selections were made in the F_4 generation at Brookston, IN in 1984. The 1985 individual F_5 observation rows were planted and harvested at Brookston, IN.

'FFR 299' was first tested in replicated preliminary tests in 1986 at three locations. It was tested in a six location advanced trial and preliminary seed increase was begun in 1987. 'FFR 299' was tested at four locations in 1988 and breeder seed was grown at this time. Further testing was conducted in 1989 at four locations.

'FFR 299' was first checked for uniformity and stability in the F_5 generation and subsequently in the F_7 , F_8 , and F_9 generations. During these observations the variety was shown to be uniform and stable. Since the establishment of breeder seed in 1988 and in each subsequent year of breeder seed production the variety has been uniform and stable. 'FFR 299' is essentially free of contaminates at the present time.

NOVELTY STATEMENT

'FFR 299' is most similar to the variety 'Pella'.

'FFR 299' differs from 'Pella' in the following characteristics:

- 1. 'FFR 299' has yellow hilum while 'Pella' has a black hilum.
- 2. 'FFR 299' has gray pubescence while 'Pella' has brown pubescence.
- 3. 'FFR 299' has the Rpslc gene for Phytophthora root rot resistance while 'Pella' has the Rpsla gene for Phytophthora root rot resistance.

EXHIBIT C

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY **SOYBEAN (Glycine max L.)

NAME O	F APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
	FFR Cooperative	16101	FFR 299
ADDRES	s (Street and No., or R.F.D. No., City, State, and Zip Cod 4112 East State Road 225 West Lafayette, IN 47906	e)	FOR OFFICIAL USE ONLY PVPO NUMBER 920056
in your a Starred o	the appropriate response which characterizes the var inswer is fewer than the number of boxes provided, tharacters * are considered fundamental to an adequation is available.	place a zero in the first box w	when number is 9 or less (e.g., 0 9).
	SHAPE: L W 1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		(L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
	COAT COLOR: (Mature Seed)		
لئا	1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	[Specify]
	COAT LUSTER: (Mature Hand Shelled Seed) 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	vy'; 'Gasoy 17')	
; []	SIZE: (Mature Seed) Grams per 100 seeds		
	COLOR: (Mature Seed) 1 = Buff 2 = Yellow 3 = Brown	1 = Gray 5 = Imperfect Bla	ck 6 = Black 7 = Other <i>(Specify)</i>
·	EDON COLOR: (Mature Seed)		
	ROTEIN PEROXIDASE ACTIVITY:		
8. SEED P	ROTEIN ELECTROPHORETIC BAND:		
	= Type A (SP1 ^a) 2 = Type B (SP1 ^b)		
э. нүрос	OTYL COLOR:		
و لـا	= Green only ('Evans'; 'Davis') 2 = Green with = Light Purple below cotyledons ('Beeson'; 'Pickett 71') = Dark Purple extending to unifoliate leaves ('Hodgson';	bronze band below cotyledons (* Coker Hampton 266A')	Woodworth'; 'Tracy')
O. LEAFL	ET SHAPE:		
<u> </u>	= Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	· ·

11	. LEAF	LET SIZE:
		1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')
12	LEAF	COLOR:
	1	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')
<u></u>	. FLOW	ER COLOR:
	2	1 = White 2 = Purple 3 = White with purple throat
× 14	, POD C	OLOR:
. .	1	1 = Tan 2 = Brown 3 = Black
15	, PLAN	PUBESCENCE COLOR:
	1	1 = Gray 2 = Brown (Tawny)
16	, PLANT	Γ TYPES:
÷	2	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')
17	, PLANT	T HABIT:
	.3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')
18	. MATU	RITY GROUP:
	0 5	1 = 000
19	DISEA	SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)
	-	TERIAL DISEASES:
*	0	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)
*	0	Bacterial Blight (Pseudomonas glycinea)
*		Wildfire (Pseudomonas tabaci)
	FUNGA	AL DISEASES:
*	0	Brown Spot (Septoria glycines)
		Frogeye Leaf Spot (Cercospora sojina)
*	0	Race 1 Race 2 Race 3 Race 4 Race 5 Other (Specify)
		Target Spot (Corynespora cassiicola)
		Downy Mildew (Peronospora trifoliorum var. manshurica)
		Powdery Mildew (Microsphaera diffusa)
*	0	Brown Stem Rot (Cephalosporium gregatum)
		Stem Canker (Diaporthe phaseolorum var. caulivora)

*			v: (Enter 0 = Not Tested; 1 = Susceptible; 2	resistant, (continued)			
*	0		m Blight (Diaporthe phaseolorum var; sojae)	•			
			•	• .			
		Purple Seed	Stain (Cercospora kikuchii)	•			
		Rhizoctonia	Root Rot (Rhizoctonia solani)	, ·	A Marine Service Control of the Cont		
		Phytophthor	a Rot (Phytophthora megasperma var. sojae)		·		
*	2	Race 1	2 Race 2 2 Race 3 1	Race 4 1 Race 5	2 Race 6 2 Race 7		
	2	Race 8	2 Race 9 2 Other (Specify)	10-11,13,15,17,21,2	23-24,26		
٠.	VIRA	AL DISEASES					
		Bud Blight (*	Fobacco Ringspot Virus)		·		
		Yellow Mosa	ic (Bean Yellow Mosaic Virus)		•		
*	0.		aic (Cowpea Chlorotic Virus)		·		
	H						
خال			Bean Pod Mottle Virus)	e e			
*	U		Soybean Mosaic Virus)				
	NEM	ATODE DISEA	•				
		Soybean Cys	t Nematode (Heterodera glycines)	m · —			
*		Race 1	0 Race 2 1 Race 3	1 Race 4 Other (Specify)		
•		Lance Nemat	ode (Hoplolaimus Colombus)				
*	0	Southern Roc	ot Knot Nematode (Meloidogyne incognita)				
*	0	Northern Roc	ot Knot Nematode (Meloidogyne Hapla)				
	同	Peanut Root	Knot Nematode (Meloidogyne arenaria)				
-	\Box	Reniform Ner	natode (Rotylenchulus reniformis)				
+		OTHER DISE	ASE NOT ON FORM (Specify):				
	<u> </u>						
20. P	HYSIO	LOGICAL RE	SPONSES: (Enter 0 = Not Tested; 1 = Suso	eptible; 2 = Resistant)			
*	0	Iron Chlorosis	on Calcareous Soil				
		Other (Specif)	· //		·		
21. 18	VSECT	REACTION:	(Enter 0 = Not Tested; 1 = Susceptible; 2 =	Resistant)	·		
			Beetle (Epilachna varivestis)	•			
			opper (Empoasca fabae)				
[)	· ·			
ا 					· · · · · · · · · · · · · · · · · · ·		
			RIETY MOST CLOSELY RESEMBLES TH	AT SUBMITTED.	I		
CHARACTER			NAME OF VARIETY	CHARACTER	NAME OF VARIETY		
	ont Sha		Pella	Seed Coat Luster	Pella		
	af Shap		Pella	Seed Size	Pride B152		
Leaf Color		r	Pella	Seed Shape	Pella		
Leaf Size			rerra	Seedling Pigmentation	Pella		

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT , LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Length	% Protein	% Oil	\$EEDS	POD
Submitted	130	1.6	91			39.0	23.2	15.2	
Pella 86 Name of Similar Variety	131	1.3	+·89			39.7	23.2	18.1	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A₂ in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

14D. EXHIBIT D

ADDITIONAL DESCRIPTION OF VARIETY

'FFR 299' is a late group II soybean variety. It has purpleflowers, gray pubescence, tan colored pods, yellow seed, and a yellow hilum. 'FFR 299' has combined the Rpsl-c gene for resistance to Phytophthora root rot and excellent lodging resistance. With these characteristics it is extremely well adapted to the area where late group II soybean varieties are grown.

14E. EXHIBIT E.

STATEMENT OF THE BASIS OF APPLICANTS OWNERSHIP

'FFR 299' was bred by breeders employed by FFR Cooperative. Employees of FFR Cooperative have no claim or rights of ownership to 'FFR 299'. Ownership of 'FFR 299' belongs to FFR Cooperative.